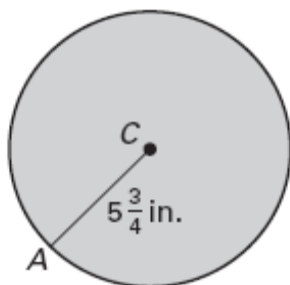


Geometry 11.5 Assignment: Areas of Circles & Sectors (pp 691-4)

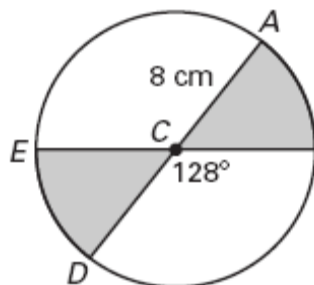
1. What is your name?

Find the area of the shaded region.

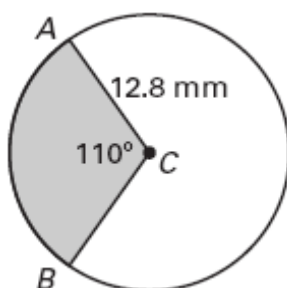
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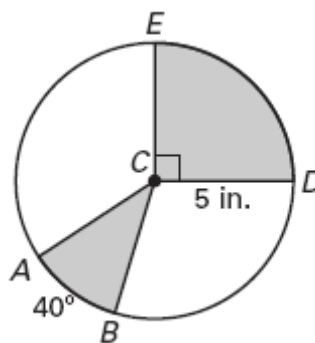
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4.



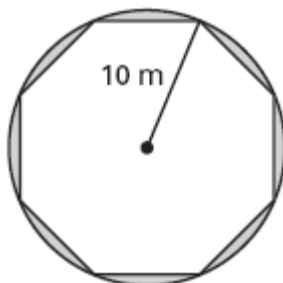
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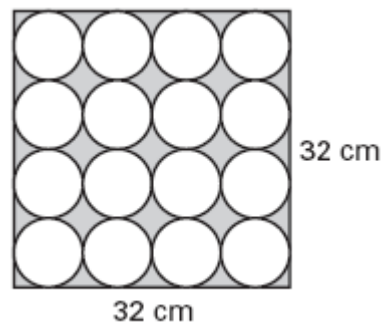
Geometry 11.5 Assignment: Areas of Circles & Sectors (pp 691-4)

Find the area of the shaded region.

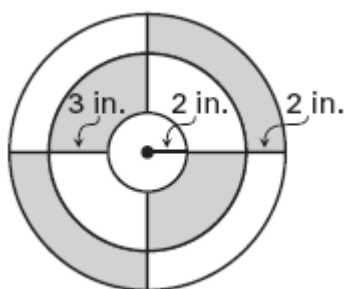
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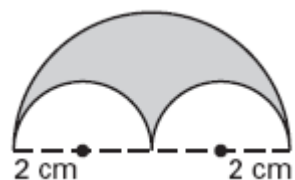
7.



8.



9.



Geometry 11.5 Assignment: Areas of Circles & Sectors (pp 691-4)

Approximate the value of the radius r of the circle or sector.

10. A circle with an area of 755 ft^2 .

11. The area of sector AOB is 1.60 m^2 , $\widehat{mAB} = 60^\circ$.

12. _____ Three pizzas of the given diameter are cut as indicated. Which cut produces the largest pieces?

- a. An 8-inch pizza cut into 6 congruent slices
- b. A 12-inch pizza cut into 8 congruent slices
- c. A 16-inch pizza cut into 10 congruent slices

13. _____ Each of the following is cut from a 6 in. 12 in. piece of posterboard. Which wastes the least?

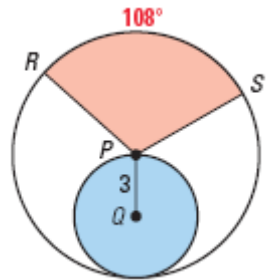
- a. Two 6-inch diameter circles
- b. Eight 3-inch diameter circles
- c. Eighteen 2-inch diameter circles

Geometry 11.5 Assignment: Areas of Circles & Sectors (pp 691-4)

$\odot Q$ & $\odot P$ are tangent.

14. _____ If $\odot Q$ is cut away, what is the remaining area of $\odot P$?

- A. 6π
- B. 9π
- C. 27π
- D. 180π



15. _____ What is the area of the top shaded region?

- A. 0.3
- B. 1.8π
- C. 6π
- D. 10.8π
- E. 108π

Review.

Simplify the ratio. (Chapter 8 Section 1)

16. $\frac{8 \text{ cats}}{20 \text{ cats}}$

17. $\frac{6 \text{ teachers}}{32 \text{ teachers}}$

18. $\frac{12 \text{ inches}}{32 \text{ inches}}$

19. $\frac{52 \text{ weeks}}{14 \text{ weeks}}$

20. The length of the diagonal of a square is 30. What is the length of each side? (Chapter 9 Section 4)

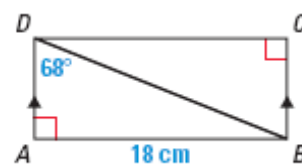
Geometry 11.5 Assignment: Areas of Circles & Sectors (pp 691-4)

Use the diagram to find the indicated measure.

(Chapter 9 Section 6)

21. BD

22. DC



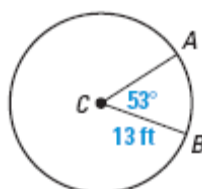
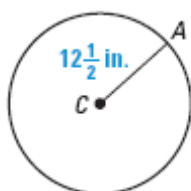
23. $m\angle DBC$

24. BC

Find the indicated measure. (Chapter 11 Section 4)

25. Circumference

26. Length of \widehat{AB} .



27. Radius

